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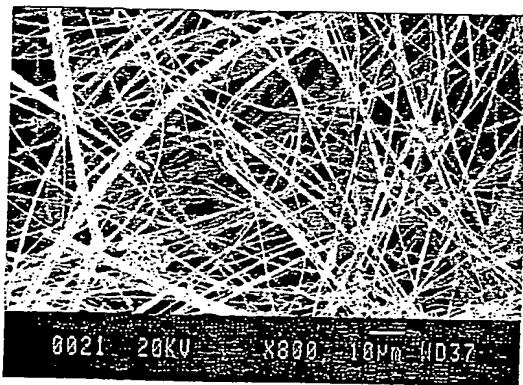
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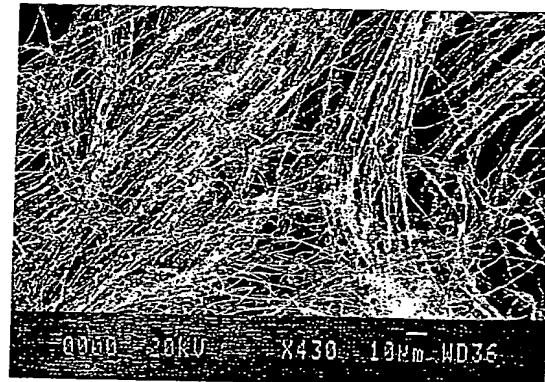
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(54) Title: QUASI-ONE-DIMENSIONAL POLYMERS BASED ON THE METAL-CHALCOGEN-HALOGEN SYSTEM

a)



b)



(57) Abstract: The present Invention relates a quasi-one-dimensional material with sub-micron cross-section described by the formula  $M_6C_yH_z$ , where the M = transition metal, C = chalcogen, H = halogen, and where y and z are integers such that  $8.2 < y+z < 10$ , which materials are synthesized in a Single-step procedure at temperatures above 1000 °C. The present invention also concerns the use of these materials in electronic, chemical, optical or mechanical applications.

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